



#18

1

SEQUENCE LISTING

<110> BALABAN, NAOMI
LARRICK, JAMES W.
WRIGHT, SUSAN C.

<120> METHODS AND COMPOSITIONS FOR THE TREATMENT AND
PREVENTION OF STAPHYLOCOCCUS AUREUS INFECTIONS

<130> 3908P2538

<140> 09/839,695

<141> 2001-04-19

<150> 09/054,331

<151> 1998-04-02

<150> 60/068,094

<151> 1997-12-19

<160> 15

<170> PatentIn Ver. 2.1

<210> 1

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<221> MOD_RES

<222> (4)

<223> Cys, Trp or Ile, preferably Trp

<220>

<223> Description of Artificial Sequence: Formula
peptide sequence

<400> 1

Tyr Lys Pro Xaa Thr Asn Phe

1

5

<210> 2

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<221> MOD_RES

<222> (4)

<223> Cys, Trp or Ile, preferably Trp

<220>
<223> Description of Artificial Sequence: Formula
peptide sequence

<400> 2
Tyr Ser Pro Xaa Thr Asn Phe
1 5

<210> 3
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> MOD_RES
<222> (7)
<223> Cys, Trp or Ile, preferably Trp

<220>
<223> Description of Artificial Sequence: Formula
peptide sequence

<400> 3
Ile Lys Lys Tyr Lys Pro Xaa Thr Asn Phe
1 5 10

<210> 4
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> MOD_RES
<222> (7)
<223> Cys, Trp or Ile, preferably Trp

<220>
<223> Description of Artificial Sequence: Formula
peptide sequence

<400> 4
Ile Lys Lys Tyr Ser Pro Xaa Thr Asn Phe
1 5 10

<210> 5
<211> 21
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 5

tattcgccgt ggaccaattt t

21

<210> 6

<211> 9

<212> PRT

<213> Staphylococcus aureus

<400> 6

Ile Lys Lys Tyr Lys Pro Ile Thr Asn
1 5

<210> 7

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 7

Tyr Ser Pro Trp Thr Asn Phe
1 5

<210> 8

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 8

Pro Cys Thr Asn Phe
1 5

<210> 9

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 9

Tyr Lys Pro Ile Thr Asn Phe
 1 5

<210> 10

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 10

Tyr Ser Pro Ile Thr Asn Phe
 1 5

<210> 11

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 11

Tyr Lys Pro Trp Thr Asn Phe
 1 5

<210> 12

<211> 840

<212> DNA

<213> Staphylococcus sp.

<220>

<221> CDS

<222> (1)..(837)

<400> 12

atg gct att aaa aag tat aag cca ata aca aat ggt cgt cgt aat atg 48
 Met Ala Ile Lys Lys Tyr Lys Pro Ile Thr Asn Gly Arg Arg Asn Met
 1 5 10 15

act tcg tta gat ttc gca gaa atc acg aaa act aca cct gaa aag tca 96
 Thr Ser Leu Asp Phe Ala Glu Ile Thr Lys Thr Thr Pro Glu Lys Ser
 20 25 30

tta tta aaa ccg cta ccg aaa aaa gcg gga cgt aac aac caa ggt aaa	144
Leu Leu Lys Pro Leu Pro Lys Lys Ala Gly Arg Asn Asn Gln Gly Lys	
35 40 45	
ttg act gta aga cac cat ggt ggt gga cac aaa cgt caa tac cgt gtt	192
Leu Thr Val Arg His His Gly Gly Gly His Lys Arg Gln Tyr Arg Val	
50 55 60	
atc gat ttc aaa cgt aac aaa gat ggt atc aat gca aaa gtt gat tct	240
Ile Asp Phe Lys Arg Asn Lys Asp Gly Ile Asn Ala Lys Val Asp Ser	
65 70 75 80	
att caa tat gat cca aac cgc tca gca aac atc gct tta gtt gta tat	288
Ile Gln Tyr Asp Pro Asn Arg Ser Ala Asn Ile Ala Leu Val Val Tyr	
85 90 95	
gca gac ggt gaa aaa cga ata tat cat tgc att gct cct aaa gga tta	336
Ala Asp Gly Glu Lys Arg Ile Tyr His Cys Ile Ala Pro Lys Gly Leu	
100 105 110	
gaa gta ggt caa atc gtt gaa agt ggt gct gaa gct gac act aaa gtt	384
Glu Val Gly Gln Ile Val Glu Ser Gly Ala Glu Ala Asp Thr Lys Val	
115 120 125	
ggg aac gca tta cca tta caa aac att cca gtt ggt aca gta gta cac	432
Gly Asn Ala Leu Pro Leu Gln Asn Ile Pro Val Gly Thr Val Val His	
130 135 140	
aac atc gag ctt aaa cct ggt aaa ggt gga caa atc gct cgt tca gct	480
Asn Ile Glu Leu Lys Pro Gly Lys Gly Gly Gln Ile Ala Arg Ser Ala	
145 150 155 160	
ggg gca agt gct caa gta ctt ggt aaa gaa ggt aaa tac gta tta atc	528
Gly Ala Ser Ala Gln Val Leu Gly Lys Glu Gly Lys Tyr Val Leu Ile	
165 170 175	
aga tta aga tct ggt gaa gtt cgt atg atc tta tct act tgc cgt gct	576
Arg Leu Arg Ser Gly Glu Val Arg Met Ile Leu Ser Thr Cys Arg Ala	
180 185 190	
aca atc ggt caa gtt ggt aac cta caa cac gaa tta gtt aac gtt ggt	624
Thr Ile Gly Gln Val Gly Asn Leu Gln His Glu Leu Val Asn Val Gly	
195 200 205	
aaa gcc gga cgt tca aga tgg aaa ggt atc cgt cca aca gtt cgt ggt	672
Lys Ala Gly Arg Ser Arg Trp Lys Gly Ile Arg Pro Thr Val Arg Gly	
210 215 220	
tct gta atg aac cct aac gat cac cca cac ggt ggt ggt gaa ggt cgt	720
Ser Val Met Asn Pro Asn Asp His Pro His Gly Gly Gly Glu Gly Arg	
225 230 235 240	

gct cct atc ggt aga cca tct cca atg tca cca tgg ggt aaa cct acg 768
 Ala Pro Ile Gly Arg Pro Ser Pro Met Ser Pro Trp Gly Lys Pro Thr
 245 250 255

ctt ggt aag aaa act cgt cgt ggt aaa aaa tca tca gac aaa ctt atc 816
 Leu Gly Lys Lys Thr Arg Arg Gly Lys Lys Ser Ser Asp Lys Leu Ile
 260 265 270

gtt cgt gga cgt aag aaa aaa taa 840
 Val Arg Gly Arg Lys Lys Lys
 275

<210> 13

<211> 279

<212> PRT

<213> Staphylococcus sp.

<400> 13

Met Ala Ile Lys Lys Tyr Lys Pro Ile Thr Asn Gly Arg Arg Asn Met
 1 5 10 15

Thr Ser Leu Asp Phe Ala Glu Ile Thr Lys Thr Thr Pro Glu Lys Ser
 20 25 30

Leu Leu Lys Pro Leu Pro Lys Lys Ala Gly Arg Asn Asn Gln Gly Lys
 35 40 45

Leu Thr Val Arg His His Gly Gly Gly His Lys Arg Gln Tyr Arg Val
 50 55 60

Ile Asp Phe Lys Arg Asn Lys Asp Gly Ile Asn Ala Lys Val Asp Ser
 65 70 75 80

Ile Gln Tyr Asp Pro Asn Arg Ser Ala Asn Ile Ala Leu Val Val Tyr
 85 90 95

Ala Asp Gly Glu Lys Arg Ile Tyr His Cys Ile Ala Pro Lys Gly Leu
 100 105 110

Glu Val Gly Gln Ile Val Glu Ser Gly Ala Glu Ala Asp Thr Lys Val
 115 120 125

Gly Asn Ala Leu Pro Leu Gln Asn Ile Pro Val Gly Thr Val Val His
 130 135 140

Asn Ile Glu Leu Lys Pro Gly Lys Gly Gly Gln Ile Ala Arg Ser Ala
 145 150 155 160

Gly Ala Ser Ala Gln Val Leu Gly Lys Glu Gly Lys Tyr Val Leu Ile
 165 170 175

Arg Leu Arg Ser Gly Glu Val Arg Met Ile Leu Ser Thr Cys Arg Ala
 180 185 190

Thr Ile Gly Gln Val Gly Asn Leu Gln His Glu Leu Val Asn Val Gly
 195 200 205

Lys Ala Gly Arg Ser Arg Trp Lys Gly Ile Arg Pro Thr Val Arg Gly
 210 215 220

Ser Val Met Asn Pro Asn Asp His Pro His Gly Gly Gly Glu Gly Arg
 225 230 235 240

Ala Pro Ile Gly Arg Pro Ser Pro Met Ser Pro Trp Gly Lys Pro Thr
 245 250 255

Leu Gly Lys Lys Thr Arg Arg Gly Lys Lys Ser Ser Asp Lys Leu Ile
 260 265 270

Val Arg Gly Arg Lys Lys Lys
 275

<210> 14
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 14
 gaattccata tggctattaa aaagtataag 30

<210> 15
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 15
 cgcgcggatc cttatttttt cttacgtcca cg 32